CLAIMS

What is claimed is:

1. A material bender for bending a stock material, comprising:

a base plate having a forming die holder mounted thereon in spaced apart relation to a ram guide mounted on said base plate, said forming die holder having a forming die with a shaped portion, said ram guide configured to form a ram path therein;

a bending ram configured to move through said ram path, said bending ram having a first end and a second end, said first end configured to apply a shaped force to the stock material; and

a generally elongated handle in pivotal relation with said base plate and configured to cooperatively engage said second end of said bending ram to drive said bending ram through said ram path and against said stock material.

2. The material bender according to claim 1, wherein said ram guide comprises a pair of ram guide members attached to said base plate in spaced apart relation, said bending ram configured to slide between said pair of ram guide members.

3. The material bender according to claim 2, wherein said ram guide further comprises a top plate mounted on said pair of ram guide members, said ram path formed between said base plate, said top plate and said pair of ram guide members.

4. The material bender according to claim 3, wherein said top plate has a top plate bore, said base plate has a base plate bore and said handle has a handle bore, said top plate bore, said base plate bore and said handle bore in cooperative alignment with one another to receive a handle pin therethrough for pivotal motion of said handle to drive said bending ram through said ram path and against the stock material.

5. The material bender according to claim 1, wherein said forming die holder is configured to removably hold said forming die.

6. The material bender according to claim 1, wherein said base plate further comprises one or more stationary pins mounted thereon, said stationary pins configured to abut the stock material while said bending ram is driven through said ram path against said stock material.

7. The material bender according to claim 1, wherein said base plate further comprises one or more pin receiving bores configured for receiving one or more adjusting pins therein, said adjusting pins configured to abut the stock material and while said bending ram is driven through said ram path against said stock material.

8. The material bender according to claim 7 further comprising a pin support bar configured to be removably mounted on said base plate, said pin support bar having one or more pin bores in corresponding alignment with said one or more pin receiving bores on said base plate, one of said one or more adjusting pins configured to be received through one of said one or more pin bores and one of said one or more pin receiving bores in corresponding alignment therewith.

9. The material bender according to claim 8, wherein said pin support bar is removably mounted on one or more plate support pins mounted on said base plate.

10. The material bender according to claim 10, wherein said handle comprises a roller configured to cooperatively engage said second end of said bending ram.

11. The material bender according to claim 1, wherein said material bender is configured to be portable and said base plate is adaptable for attachment to a mounting apparatus.

12. The material bender according to claim 11, wherein said mounting apparatus comprises a support frame configured for supporting said base plate while bending said stock material.

13. The material bender according to claim 12, wherein said support frame is configured for connection to a hitch attached to a vehicle.

14. The material bender according to claim 13, wherein said mounting apparatus comprises a mounting plate for supporting said base plate and said support frame comprises a generally horizontal member configured to attach to said hitch and a generally elongated upright member interconnecting said generally horizontal member and said mounting plate.

15. A material bender for bending a stock material, comprising:

a base plate having a forming die holder mounted thereon in spaced apart relation to a ram guide mounted on said base plate, said forming die holder having a forming die with a shaped portion, said ram guide comprising a pair of ram guide members attached to said base plate in spaced apart relation to form a ram path therebetween;

a bending ram configured to slidably move through said ram path, said bending ram having a first end configured to apply a shaped force to the stock material and a second end shaped and configured to drive said bending ram through said ram path;

one or more pin receiving bores on said base plate, each of said one or more pin receiving bores configured to receive an upwardly projecting pin configured to abut the stock material while said bending ram applies said shaped force to the stock material; and

a generally elongated handle pivotally attached to said ram guide and configured to cooperatively engage said second end of said bending ram to drive said bending ram through said ram path and against said stock material..

16. The material bender according to claim 15, wherein said ram guide comprises a pair of ram guide members attached to said base plate in spaced apart relation and a top plate mounted on said pair of ram guide members, said ram path formed between said base plate, said top plate and said pair of ram guide members.

17. The material bender according to claim 15 further comprising a pin support bar mounted on said base plate, said upwardly projecting pin interconnecting a pin bore on said pin support bar with one of said one or more pin receiving bores on said base plate.

18. The material bender according to claim 15, wherein said base plate further comprises one or more stationary pins mounted thereon, said stationary pins configured to abut the stock material while said bending ram is driven through said ram path against said stock material.

19. The material bender according to claim 15, wherein said material bender is configured to be portable and said base plate is adaptable for attachment to a mounting apparatus, said mounting apparatus comprising a support frame configured for supporting said base plate while bending said stock material.

20. The material bender according to claim 19, wherein said support frame is configured for connection to a hitch attached to a vehicle.

21. A material bender for bending a stock material, comprising:

a base plate having a forming die holder mounted thereon in spaced apart relation to a ram guide mounted on said base plate, said forming die holder having a forming die with a shaped portion, said ram guide configured to form a ram path therein;

a bending ram configured to move through said ram path, said bending ram having a first end and a second end, said first end configured to apply a shaped force to the stock material;

one or more upwardly projecting stationary pins mounted on said base plate, said stationary pins configured to abut the stock material while said bending ram is driven through said ram path against said stock material;

one or more pin receiving bores on said base plate, each of said one or more pin receiving bores configured to receive an upwardly projecting adjusting pin configured to abut the stock material while said bending ram applies said shaped force to the stock material;

a generally elongated handle in pivotal relation with said base plate and configured to cooperatively engage said second end of said bending ram to drive said bending ram through said ram path and against said stock material; and

a mounting apparatus comprising a support frame configured for supporting said base plate while bending said stock material, said support frame configured for connection to a hitch attached to a vehicle.